PAT	Express Mail Cert. No.: EV 316 332 220 US Inventor: Michael Christian Norris Application No.: 10/505,291 Attorney Docket No.: 45669-304008 OF SOUTH AFRICA ENTS ACT, 1978	REVENUE FORMPA REVENUE FORMPA REVENUE FRANKING MACHINE MARKESSION REVENUE FRANKING MACHINE MARKESSION REVENUE FRANKING MACHINE MARKESSION			
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-THIS-APPL	ICATION IS FOR A PATENT OF AD	DITION TO PATENT APPLICATION NO.			
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THIS APPLICATION IS	A FRESH APPLICATION IN TERMS	OF SECTION 37 AND BASED ON APPLICATION NO.			
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THIS APPLICATION IS ACCOM	IPANIED BY:				
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2. Drawings of	sheets nd abstract (Form P.S. in duplicate)				
	of the drawings (if any) for the ab-	stract			
5. Assignment of invention					
6. Certified priority docum					
	7. Translation of the priority document(s) 8. An assignment of priority rights				
S 9. A copy of the Form P.2, and the specification of S.A. Patent Application No. 21 01 83/4272					
10. A declaration and power of attorney on Form P.3.					
☐ 11. Request for ante-deting on Form P.4. ☐ 12. Request for classification on Form P.9.					
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SPOOR AND FISHER

REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978

COMPLETE SPECIFICATION
(Section 30(1) — Regulation 28)

OFFICIAL APPLICATION NO. 21 01 845735 INTERNATIONAL CLASSIFICATION 51 A 61 K FULL NAME(S) OF APPLICANT(S) PHREMAREUTICALS NAM VERANDER ADCOCK—INGRAM LABORATORIES LIMITED NAME CHANCED 9-1-91 NAME CHANCED PHOCOCK INGRAM PHREMACEUTICALS LIMITED NAME GHAVED PHOCOCK INGRAM PHARMACEUTICALS LIMITED FULL NAME(S) OF INVENTOR(S) 72 BINIOMIN KRENGEL TITLE OF INVENTION

BACKGROUND OF THE INVENTION

This invention relates to pharmaceutical units.

There are many anti-inflammatory compounds presently on the market.

Among these compounds may be mentioned indomethacin, flubiprofen,

5 ketoprofen, ibuprofen, fenoprofen, indoprofen, fenbufen and naproxen.

These compounds are used primarily for their anti-inflammatory

properties, although some of them do exhibit other useful therapeutic indications.

The literature contains reports on clinical studies involving 10 administering ibuprofen or flubiprofen with paracetamol or aspirin as a supplemental analgesic.

SUMMARY OF THE INVENTION

According to the invention, there is provided a dose comprising at least one pharmaceutical unit, the or each unit containing a combination of ibuprofen and at least one analgesic agent as active 5 ingredients, the dose providing a therapeutically effective amount of each active ingredient. Generally, the dose will comprise at least two units.

It is an essential aspect of the invention that each dose, that is the amount which is administered to a warm-blooded animal such as a human 10 at any given time, provides a therapeutically effective amount of both active ingredie. Thus, the dose will produce both anti-inflammatory and analgesic effects in the animal to which it is administered.

The units will generally be in orally administrable form and will typically be in the form of tablets, capsules or a quantity of liquid.

15 DETAILED DESCRIPTION OF THE INVENTION

Where a single analgesic agent is used in the units, that agent is preferably paracetamol. Where more than one analgesic agent is used in the units, the agents are preferably paracetamol and codeine. The codeine, when used, may be used in the form of the base or a 20 pharmaceutically-acceptable salt, e.g. the phosphate or sulphate salt. The paracetamol, when used, provides the composition with anti-pyretic properties as well.

Several doses will generally be administered per day so as to provide a warm-blooded animal with 800 to 2000mg of ibuprofen and 1000 to 2500mg 25 of analysesic per day. Thus, for example, the units may be provided in

the form of tablets each containing 200mg of ibuprofen and 250mg of paracetamol. Two tablets may be taken four times daily to provide the desired daily dose of ibuprofen and paracetamol.

Examples of the invention will now be described.

5 EXAMPLE 1

Tablets containing ibuprofen as anti-inflammatory agent and paracetamol and codeine as analysesic agents were produced. Each tablet contained the ingredients set out below:

	Ingredient	Quantity per Tablet
10	Paracetamol	250 - 300 mg
	Ibuprofen	170 - 230 mg
	Codeine	5 - 30 mg
	Binders	5 - 30 % of core weight
	Diluents	5 - 30 % of core weight
15	Disintegrant	0,5 - 10% of core weight
	Lubricant	0,5 - 2 % of core weight
	Core Weight	460 - 760 mg

The tablet cores were formulated by conventional procedures, and then each tablet core was coated with a sugar coating, colouring agents, a 20 binder, a lacquer and polishing aids. Alternatively, a conventional solvent or water-based film coat may be applied to the tablet core.

These tablets are suitable for the treatment of injury caused by excessive prostaglandin activity by oral administration of at least two tablets four times a day.

EXAMPLE 2

Capsules containing ibuprofen as anti-inflammatory agent, and paracetamol and codeine as analgesic agents were produced. Each capsule contained the ingredients set out below:

5	Ingredient	Quantity per Capsule
	Paracetamol	250 - 300 mg
	Ibuprofen	170 - 230 mg
	Codeine	5 - 30 mg
	Binder/Diluents	0,1 - 15 % by weight of the
10		total ingredients
	Lubricant	0,1-2% by weight of the
	•	total ingredients

The ingredients were mixed together by conventional procedures, and the mixture was then filled into Size O capsules.

15 The capsules are suitable for the treatment of injury caused by excessive prostaglandin activity by oral administration of at least two capsules four times a day.

EXAMPLE 3

A liquid containing ibuprofen as anti-inflammatory agent, and paracetamol and codeine as analgesic agents was produced. Each 30ml dose of the liquid contained the following ingredients:

5	Ingredient	Quantity per 30ml of the Liquid
•	·	•
	Paracetamol	250 - 300 mg
•	Ibuprofen	170 - 230 mg
	Codeine	5 - 30 mg
	Solubilisers/Stabilisers	15 - 40 % by weight of 30ml
10		of the liquid
	Colouring Agents	0,2-2% by weight of 30ml
		of the liquid
	Alcohol	4 - 18% by weight of 30ml
		of the liquid
15	Preservative	0,1 - 1% by weight of $30ml$
	×	of the liquid

The liquid was formulated by conventional procedures.

The liquid is suitable for the treatment of injury caused by excessive prostaglandin activity by oral administration of at least two 20 tablespoons (30ml) four times a day.

CLAIMS

1.

A dose comprising at least one pharmaceutical unit, the or each unit containing a combination of ibuprofen and at least one analgesic agent 5 as active ingredients, the dose providing a therapeutically effective amount of each active ingredient.

'2.

A dose according to claim 1 comprising at least two units.

3.

10 A dose of claim 1 or claim 2 wherein the analgesic agent is paracetamol.

4.

A dose of claim 1 or claim 2 wherein a combination of analgesic agents is used, that combination being paracetamol and codeine.

15 5.

A dose of any one of claims 1 to 4 the or each unit is a tablet, a capsule or a quantity of liquid.

6.

A composition of claim 1 substantially as herein described with 20 reference to any one of the Examples.

DATED this 26th day of JULY 1984

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